

ABSTRACT OF THE DISCLOSURE

In a packet transmission system including host apparatuses and a router which transfers a packet from
5 host apparatuses in a first host group to host apparatuses
in a second host group, each host apparatus in the first
host group inserts in a packet an IP address and a link-
layer address of a destination host apparatus in the
second host group before transmitting the packet. When the
10 router receives the packet, the router determines an
output port connected to at least one host apparatus in
the second host group including the destination host
apparatus, based on the IP address of the destination host
apparatus inserted in the packet, and transmits the
15 received packet from the determined output port.